

IN THE SPECIFICATION:

Please replace the original paragraph number 16 on page 5 with the following paragraph:

[0016] Pump 12 includes a rotor 14 and a pivoting cam ring 16. For a detailed description of a variable displacement vane pump, see U.S. Patent No. 6,623,250 to Zagranski et al. issued September 23, 2003 which is incorporated herein by reference in its entirety. Pump 12 receives fuel flow from line 15 at an inlet pressure P_{AF} , and delivers fuel flow at an output pressure P_F into line 37. A piston 18 is operatively connected to the cam ring 16 to control the position of the cam ring 16 relative to the rotor 14, and in turn vary the output flow of the pump 12. A half area servo 17 positions piston 18 within housing 11. It would be appreciated by those of ordinary skill in the art that other types of servos similarly and differently arranged would perform this same function and are, therefore, considered mere design choices. For example without limitation, an equal area servo could be utilized as servo 17. The maximum flow setting of pump 12 occurs when the piston 18 is moved the maximum distance to the left. A feedback line 30 provides fuel at pressure P_F to one inlet of the half area servo 17. An orifice 31 in line 30 dampens the motion of the piston 18. It will be appreciated by those of ordinary skill in the art that line 30 may connect the half area servo 17 to a variety of sources while still maintaining the required performance for the preferred embodiment. Line 44 provides pressure to the other inlet of half area servo 17 as is described below. Spring 19 is sized and configured to bias piston 18 to maximum flow for start up of pump 12. Throughout system 10, springs are sized as a function of the product of piston area and fuel pressure as would be appreciated by those of ordinary skill in the art and therefore not further described herein.